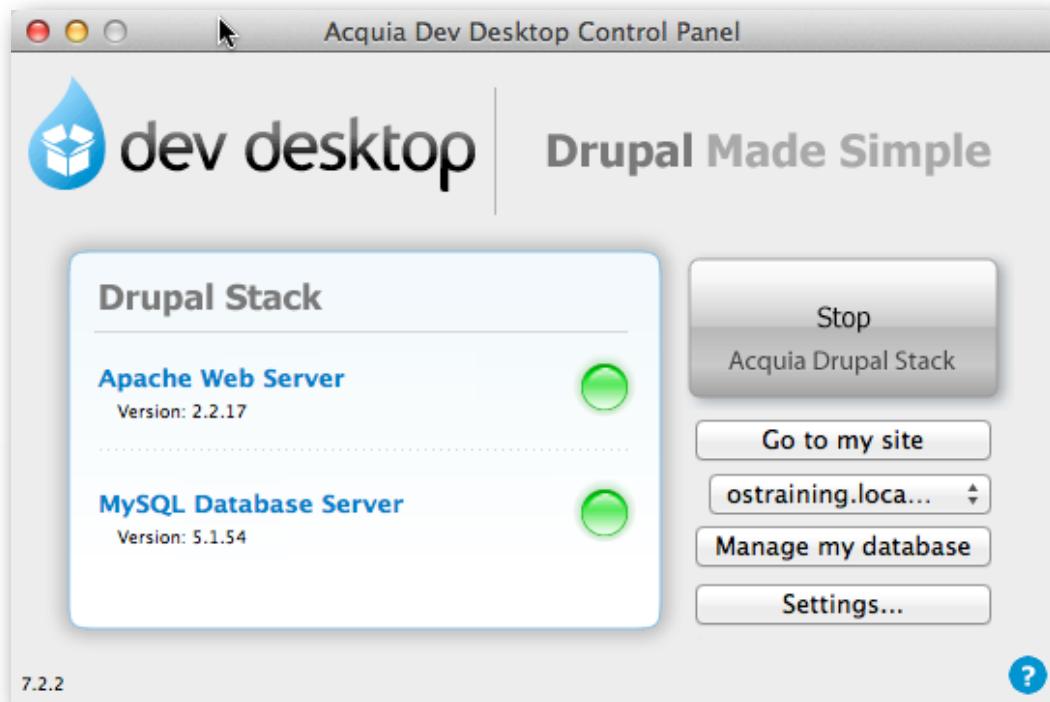


# Absolute Beginner's Guide to Drupal



# The “OSWay”

1. Introduction
2. Install
3. Create
4. Extend
5. Design
6. Practice



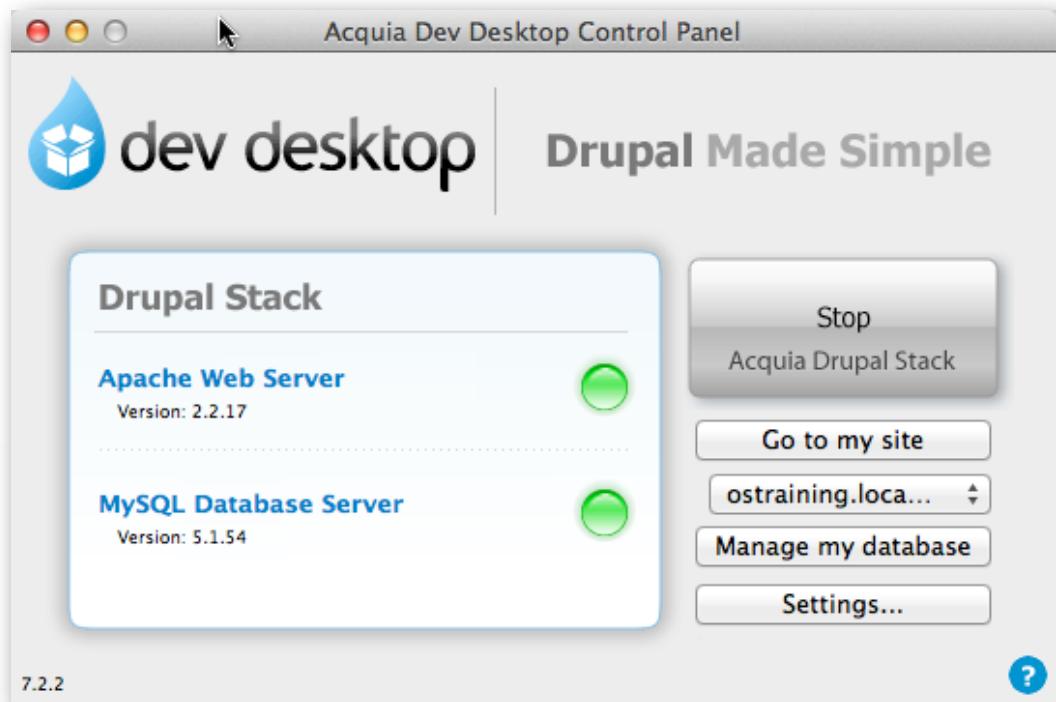
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# The “OSWay”

1. Introduction
2. Install
3. Create
4. Extend
5. Design
6. Practice



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# Drupal

- **What?** A Content Management System
- **When?** Started in 2000 by Dries Buytaert a student at a university in Belgium.



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# What is a Content Management System (CMS)?

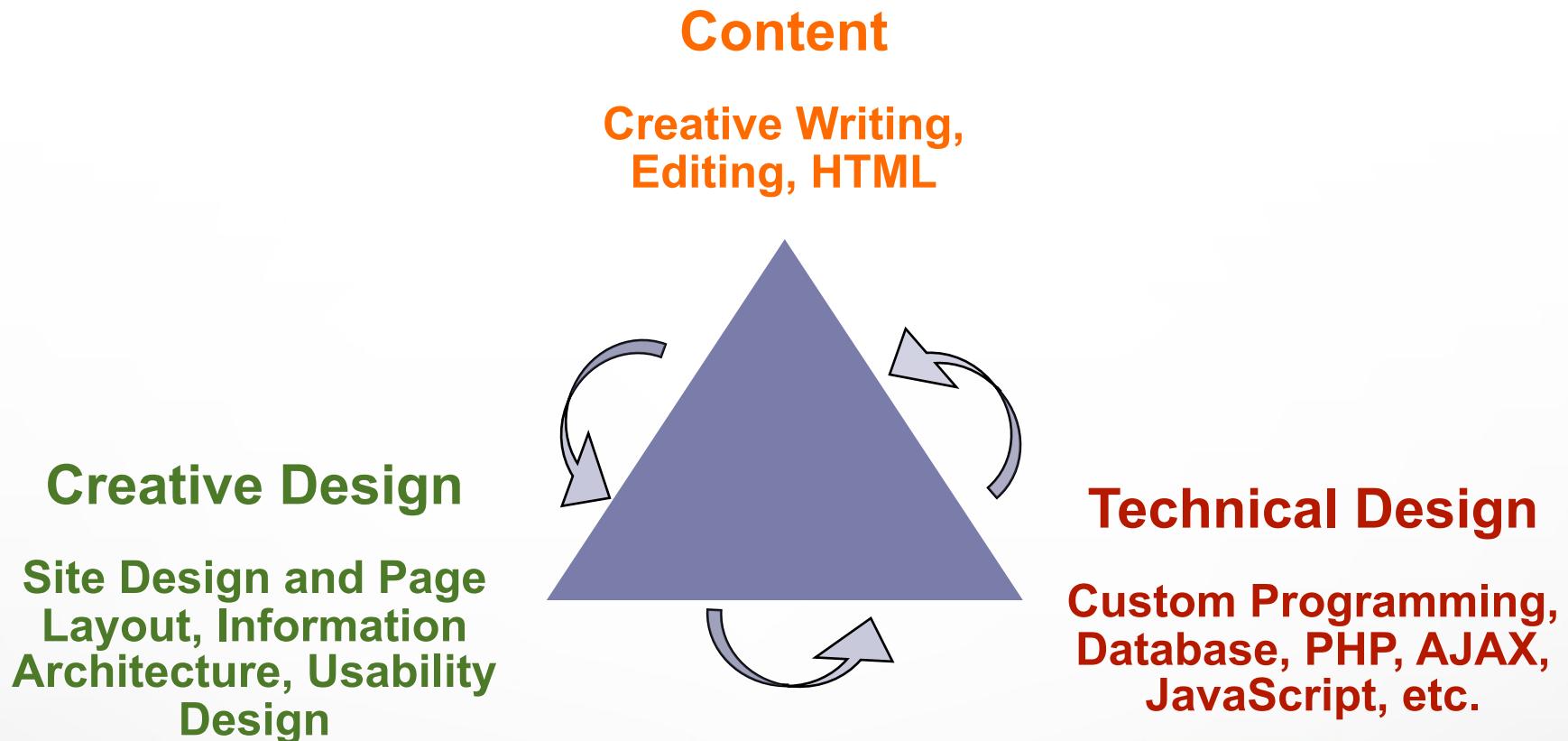
- a software platform that aids in the management of content on a Web site.  
<http://www.anvilmediainc.com/search-engine-marketing-glossary.html>
- a software application that makes it possible for non-technical users to publish content to a website. A CMS serves as a store for a wide range of information assets, including text, image databases and so on.  
[www.publiclife.co.uk/glossary.html](http://www.publiclife.co.uk/glossary.html)

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# What is a Content Management System (CMS)?



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# The Drupal Business Model

**Drupal is free.**

**How is that possible?** Drupal is run by volunteers working for Drupal businesses.

Drupal is free: but Drupal sites often aren't.

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# The Business Behind Drupal

Drupal is still led by it's founder, Dries Buytaert.

His company Acquia runs much of Drupal's products, services and support



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# What Does Drupal Mean?

Drupal is a misspelling of “drop” in Dutch.

That explains the logos:



acquia™

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# Users: White House

the WHITE HOUSE PRESIDENT BARACK OBAMA ★★★★★

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50 States / 50 Stories

Learn what's happening in your state and hear stories from people across the country who are benefitting from the Affordable Care Act. [Visit the Map](#)

HEALTH REFORM  
*in*  
ACTION

Six months after the passage of health reform, hear from Americans who are already benefitting and watch as President Obama makes a surprise call to a New Hampshire woman.

[Learn More](#)  
[Watch the Video](#)

1 2 3 4



President Obama speaks to Gail O'Brien

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# Department of Commerce

SUNDAY, SEPTEMBER 26, 2010

PERSON FINDER | SITE FEEDBACK

 COMMERCE.GOV  
UNITED STATES DEPARTMENT OF COMMERCE

SEARCH Search this site

Home The Commerce Blog Newsroom Office of the Secretary About Commerce Contact



Secretary Locke Announces Opening of CommerceConnect Office

Secretary Locke Announces Opening of CommerceConnect

1 2 3 4

I want to...

What is the U.S. Department of Commerce?

The Commerce Department's mission is to help make American businesses more innovative at home and more competitive abroad.

Comprised of 12 different agencies responsible for everything from weather forecasts to patent protection, the Commerce Department touches the lives of Americans every day.

[Find out more about Commerce.](#)

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# Department of Education

The screenshot shows the official website of the U.S. Department of Education (ED.gov). The header features the ED.gov logo, the text "U.S. Department of Education", a search bar with a magnifying glass icon and a "Search" button, and the seal of the Department of Education. Below the header is a navigation menu with links to "Funding", "Policy", "Research", "News", and "About ED".

A main headline "Let's Fix NCLB" is displayed, followed by a subtext: "Secretary Duncan invites the new Congress to fix No Child Left Behind so that it provides flexibility and fairness, invests in teachers and principals, and focuses on schools and students most at risk." A "READ MORE" link is provided.

Below this section are navigation buttons numbered 1 through 4, and a double arrow symbol indicating more content.

The central part of the page features a photograph of several students in a classroom setting, looking towards the right.

On the left side, under the "News" heading, there are three news items:

- National Youth Summit: Leading the World in College Completion** (Friday, January 14)
- Science Strategy at Work: Project-Based Lesson in Genetics** (Thursday, January 13)
- Teacher Evaluation: Listening to Students**

On the right side, under the "How Do I Find...?" heading, is a list of links:

- Student loans, forgiveness
- Pell grants
- Accreditation, schools
- Grants
- No Child Left Behind
- More

Below this are three additional sections with buttons for "LEARN MORE":

- Teachers**
- PreK-12 Reform**
- College Completion**

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# Grammy Awards

GRAMMY.org | THE RECORDING ACADEMY | GRAMMY FOUNDATION | MUSICARES | THE LATIN RECORDING ACADEMY | GRAMMY MUSEUM | GRAMMY 365

LOGIN | REGISTER      SEARCH

The 53rd Annual GRAMMY Awards  
Watch on CBS 8PM ET/PT, February 13

28 DAYS . 8 HRS . 34 MINS . 41 SECS

HOME | PHOTOS | VIDEOS | BLOGS | NEWS | NOMINEES | GRAMMY LIVE | RADIO | PRESS | SPONSORS | STORE

Feels Like The First Time  
Ryan Bingham blogs on his first GRAMMY nomination

Videos [More videos »](#)

The Way You Lie • RAY LAMONTAGNE AND THE PARIAH DOGS Beg S

Play video

2011 GRAMMY Nominees Album

EMINEM FEAT. RIHANNA Love The Way You Lie

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# Christina Aguilera

CHRISTINA AGUILERA ▾



SIGN IN

1617 ONLINE

MY CHRISTINA 0



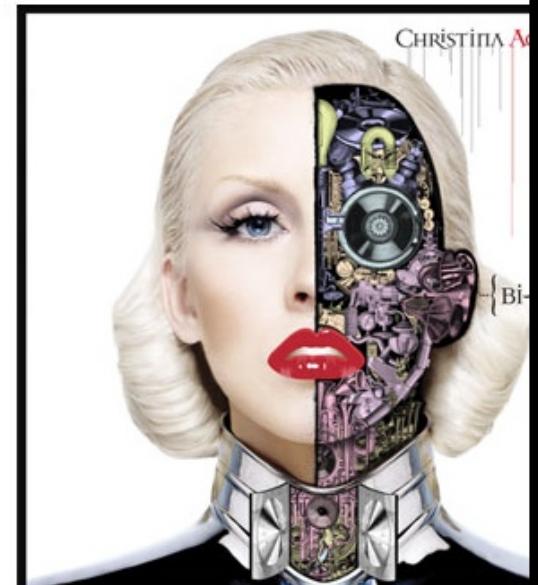
0 CART

LATEST MUSIC + LYRICS EVENTS MEDIA COMMUNITY CHRISTINA RADIO SHOP

GET THE NEWSLETTER ▾



SHOP NOW!



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# Major League Soccer



The screenshot shows the MLS Soccer.com homepage. At the top, there's a navigation bar with links for MLS NETWORK, Twitter, Facebook, YouTube, and a RSS feed icon. The main header features the MLS logo and the text "MLS SOCCER.COM". Below the header is a menu bar with links for Home, News, Draft, Transactions, Schedule, Standings, Stats, Players, Videos, Podcasts, CCL, Community, Fantasy, Clubs, Store, and Español. The main content area has a large image of three soccer players (one blonde, one dark-skinned, one with a beard) on a lined notebook background. Below this image is a headline: "American Exports Notepad" followed by the subtext: "Jones to Rovers? Plus Holden, Buddle & Gooch news". There are four smaller thumbnail images below the main image: "American Exports" (two players), "Sporting Think Big" (a man speaking at a podium), "A Good Start?" (three men in suits), and "Relive The Draft" (a group of people cheering). To the right, there's a sidebar titled "TOP STORIES" with a list of news items and a "TOP VIDEOS" section. At the bottom right is a large graphic for "EXTRATIME RADIO" featuring "MONDAY + THURSDAY" and "SOCCER PODCAST".

MLS NETWORK

t f YouTube

MLS SOCCER.COM

Home News Draft Transactions Schedule Standings Stats Players Videos Podcasts CCL Community Fantasy Clubs Store Español

American Exports Notepad

Jones to Rovers? Plus Holden, Buddle & Gooch news

American Exports

Sporting Think Big

A Good Start?

Relive The Draft

TOP STORIES

- American Exports: Edu scores, Deuce assists
- NY academy standout Hot on trial in Germany
- Dynamo offers contracts to academy players
- Nanchoff: I had a feeling about Vancouver
- Crew impressed with Balchan's versatility
- Fire fan Campbell ready to fight for FCD
- Philadelphia decline option on Toni Stahl
- US to host Argentina, Paraguay in March
- SuperDraft: Team by Team
- Fantasy: Liverpool or Everton?

TOP VIDEOS

EXTRATIME RADIO

MONDAY + THURSDAY

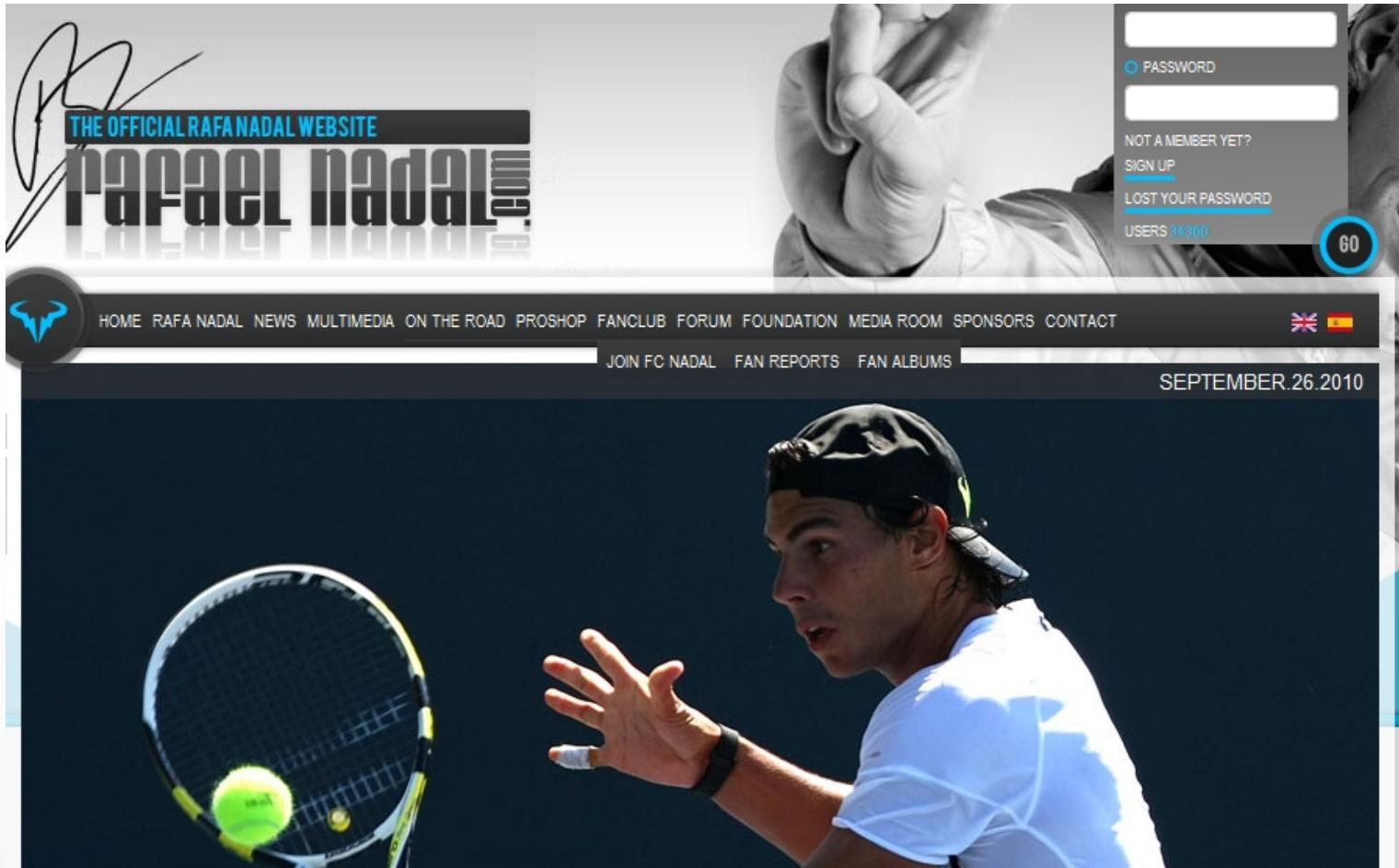
SOCCER PODCAST

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# Rafael Nadal



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What's in  
your glovebox?

CHANNELS

MUSIC

SHOWS

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VIDEOS

MOVIES

GALLERIES

COMPETITIONS

GAMES

DOWNLOADS

MOBILE

Contact us

TV Guide

Search MTV - Type here

GO

I WANT MY MTV IBIZA

Duck Sauce to headline tonight. Get your tickets here...

INFO

AXA redefining / standards

ambitionaxaawards.com



NEWS

Rihanna Joins Eminem On Stage At V Festival



MUSIC

MTV's Most Wanted

This week's Most Wanted video is 'All Fired Up' by the UK's biggest girl group The Saturdays...



SHOWS

Awkward. New Show!

An unfortunate accident leaves Jenna in a neckbrace - and she goes from invisible to infamous

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# No False Promises

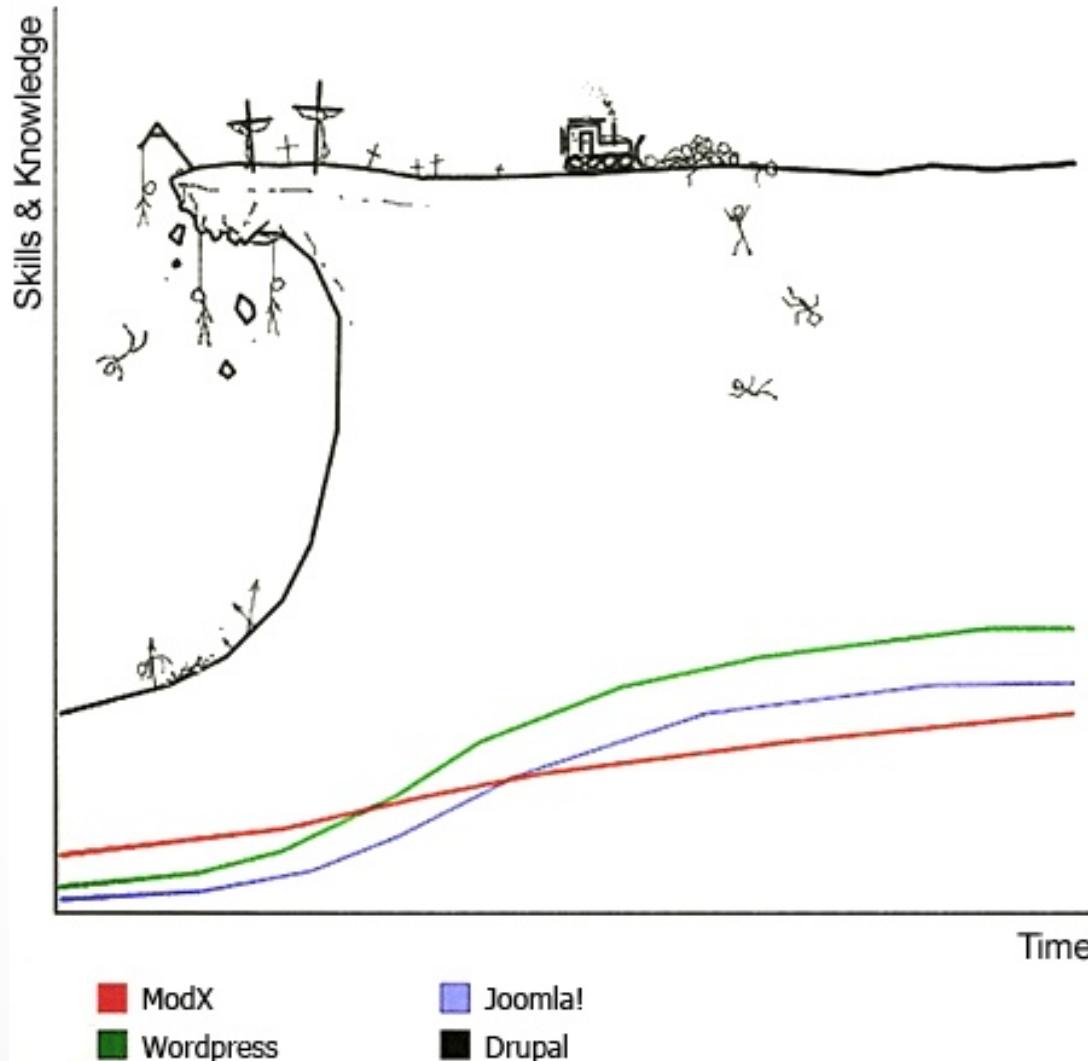
- **HUGE** learning curve beyond the basics

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### Learning curve for popular CMS



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# No False Promises

- **HUGE** learning curve beyond the basics
- **Quicker**, but good sites still take time
- **Cheaper**, but may cost \$XX,XXX or more
- **More Options**, but custom work often needed

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# No False Promises

Drupal is not right for every site

- **WordPress** = very easy, but few features
- **Joomla** = easier, but less flexibility



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# Why use Drupal 7?

- **Drupal 5**
  - Launched 2007. Updates have ended
- **Drupal 6**
  - Launched 2008. Still actively developed and used for 95% of sites.
- **Drupal 7**
  - Launched 2011.

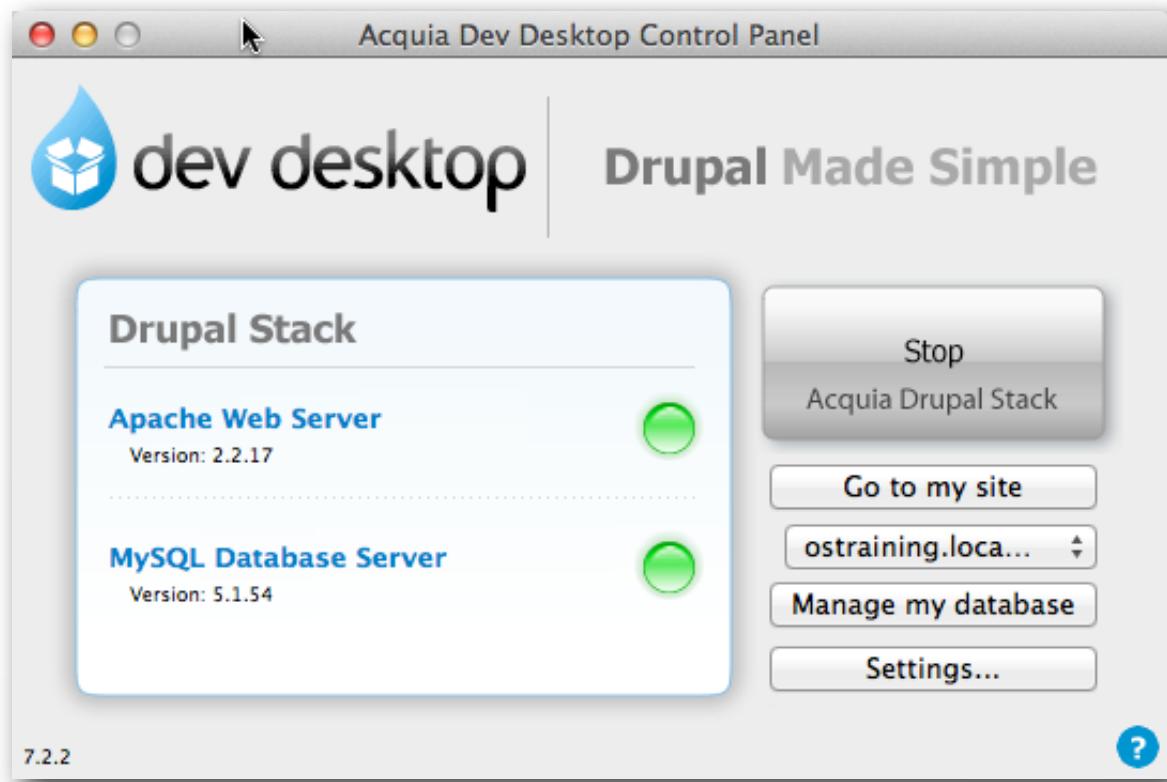
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# The “OSWay”

1. Introduction
2. Install
3. Create
4. Extend
5. Design
6. Practice



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# Installation #1 ... Automatic



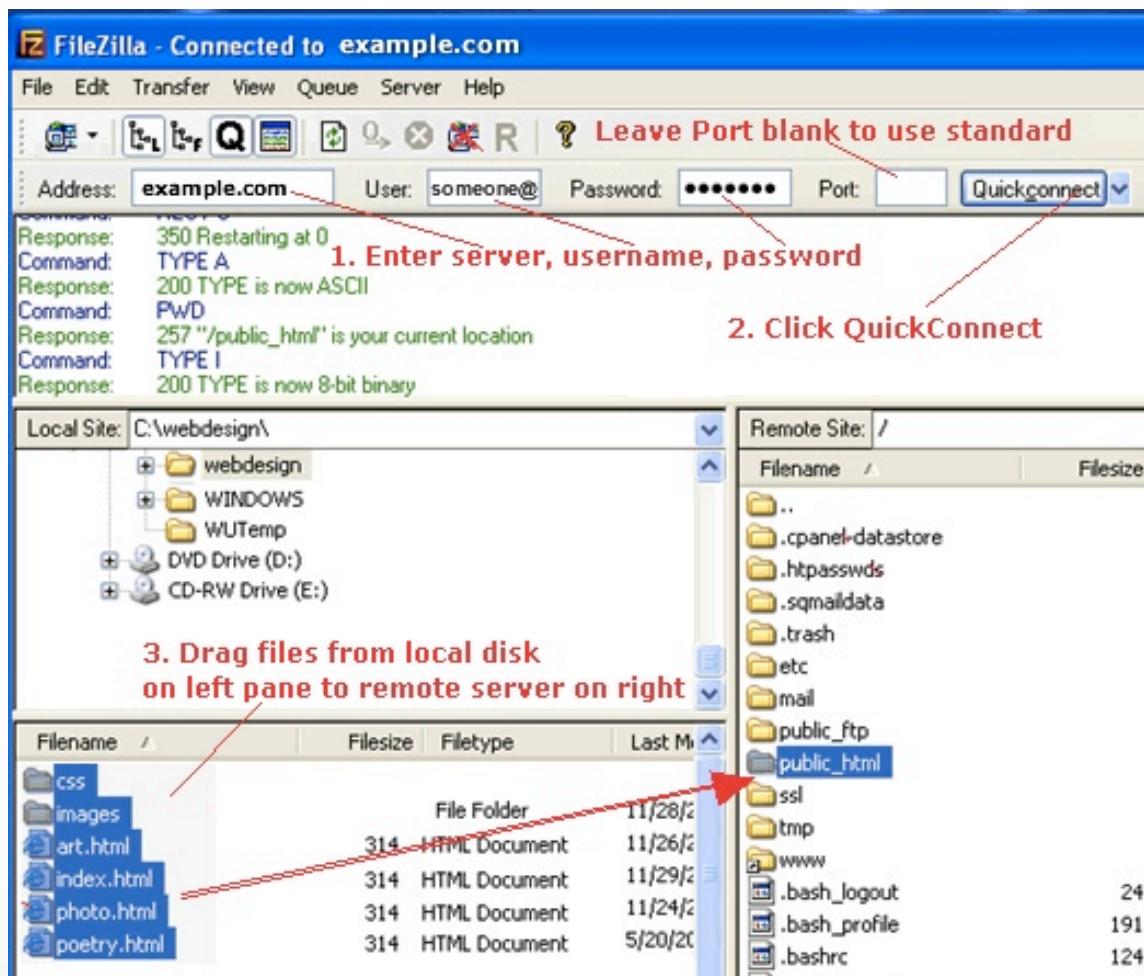
The screenshot shows the Fantastico software interface. At the top, there's a blue smiley face icon with the word "Fantastico" below it. Below this, a section labeled "Drupal" contains the Drupal logo (a stylized orange drop with the word "Drupal" in white). A "Short description:" section follows, detailing Drupal as an advanced portal with collaborative book, search engines friendly URLs, online help, roles, full content search, site watching, threaded comments, version control, blogging, and news aggregator. It also provides the "Homepage: <http://drupal.org/>". Below this, there's a link to the "Drupal support forum" with the note "(We are not associated with the support forum)". At the bottom, there's a "New Installation (7.0)" section with disk space information: "Disk space required: 14.18 MB" and "Disk space available: 472.5 MB".

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# Installation #2 ... Manual



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# Installation #3 ... Cloud

The screenshot shows the Drupal Gardens website homepage. At the top, there's a blue header with the "Drupal Gardens" logo and the word "Beta". Below the header, a large green box contains the text "Building Drupal websites just got easier." and a description of how it helps businesses. To the right of this text is a video player showing a thumbnail for a video titled "Watch the phenomenon in action!". Below the video player is a green footer section with two items: "See what's inside" and "Theming made easy".

**Drupal Gardens Beta**

**Building Drupal websites just got easier.**

Launch a product, promote an event, engage a community - You can create socially smart websites and microsites that accelerate your business with Drupal Gardens.

**Get started for free!**  
Design to online in 15 minutes.

Get started

DrupalGardens is a product of Acquia

Watch the phenomenon in action!

See what's inside

Discover Drupal 7 as a service.

Theming made easy

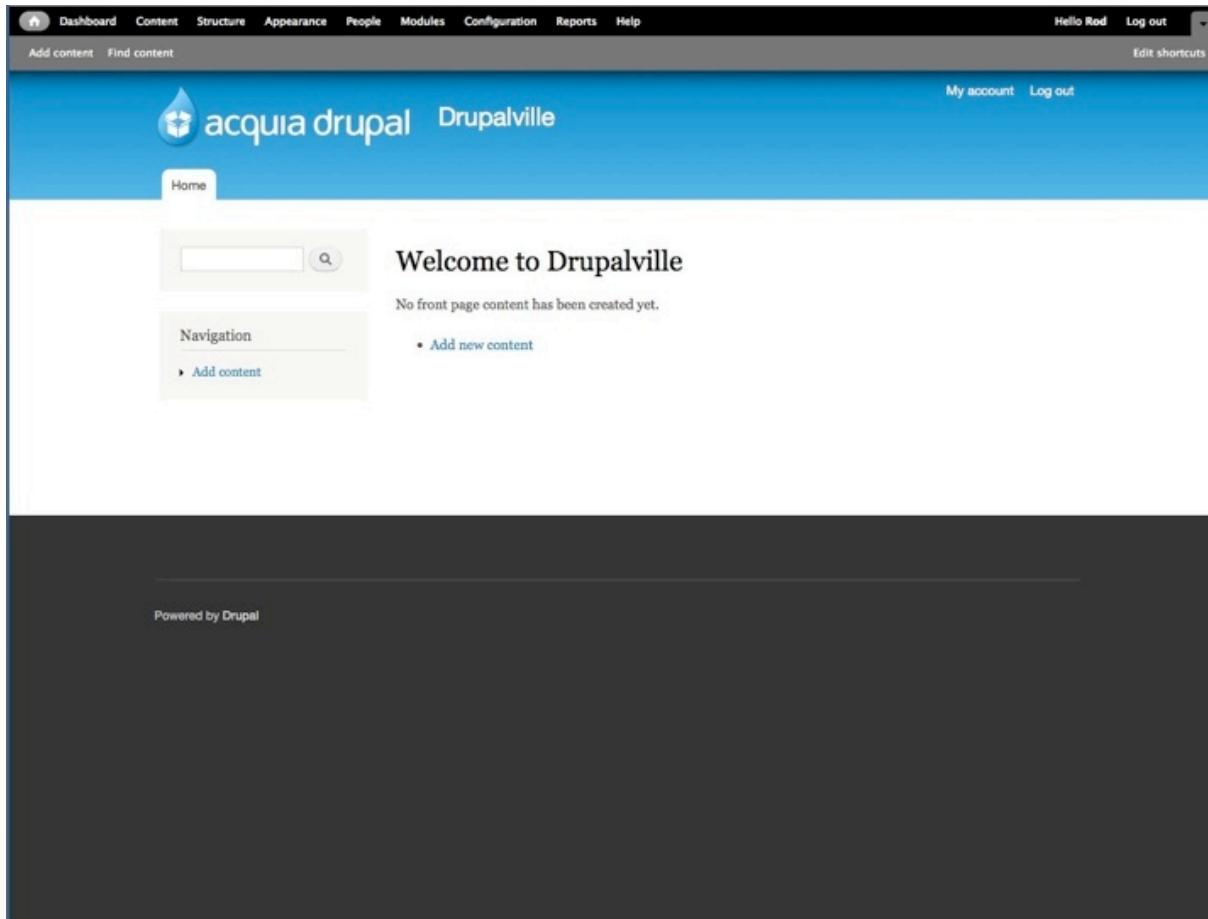
Point. Click. Style.

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# Installation #4 ... Desktop



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# Admin Area

Username: admin  
Password: admin

User login

Username: \*

Password: \*

Create new account  
 Request new password

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# Admin Area



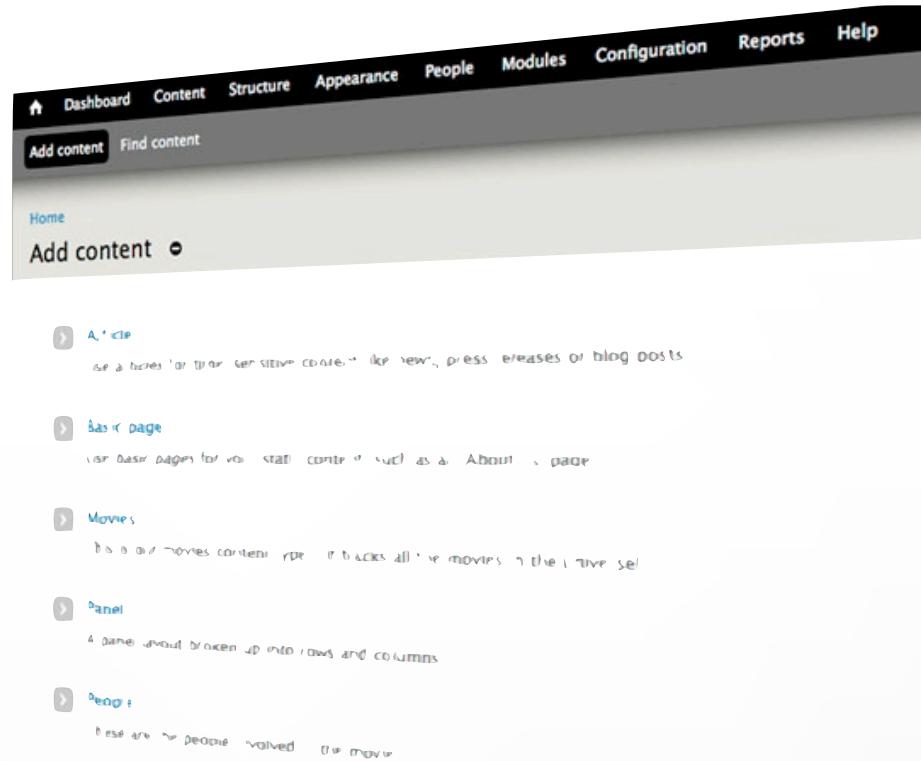
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5. Design
6. Practice

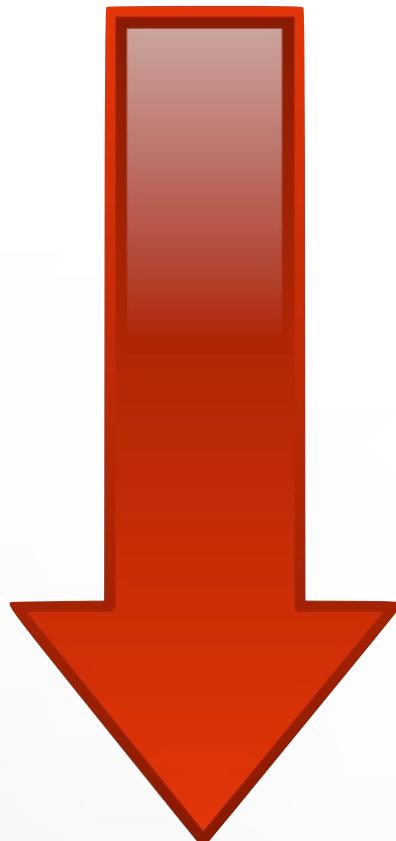


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# Content Workflow



- 1) **Content types**
- 2) **Fields** (if extra data needed)
- 3) **Taxonomy** (if categories needed)
  - Vocabulary
  - Terms
- 4) **Create Content**

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# Content Workflow

## 1) Content types

- Control over how content is added to your site.
- Goes way beyond the typical “Title” and “Body” fields.
- Allows for custom data fields to be attached to Drupal entities (content nodes, users, taxonomy vocabularies, etc.) and takes care of storing, loading, editing, and rendering field data.  
(Fields Module)

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# Content Workflow

## 2) Fields

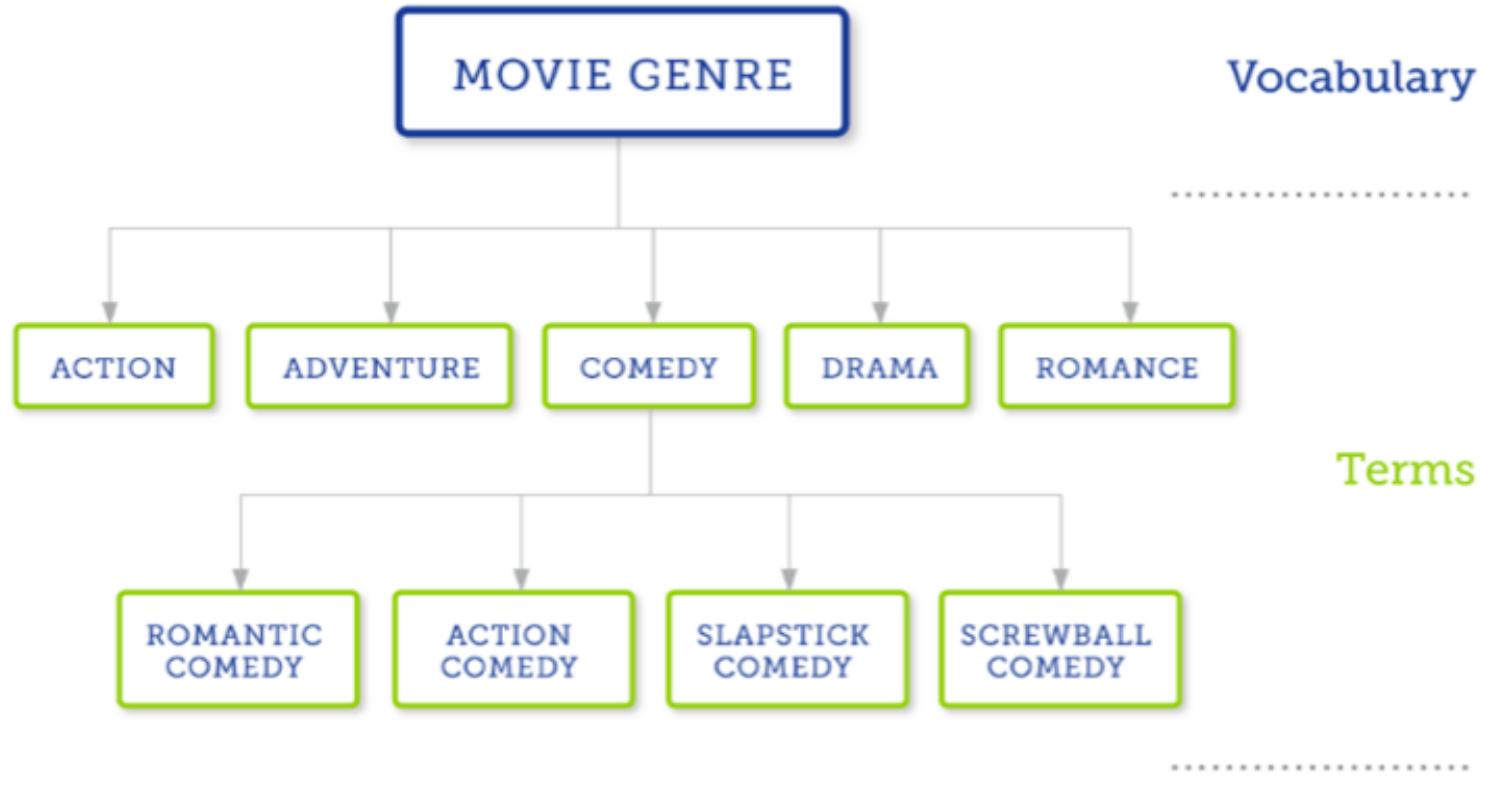
- Where content is added to your site.
- Can be sorted, selected, presented in any setting.
- Allow for customizing your content for maximum flexibility.

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# Content Workflow



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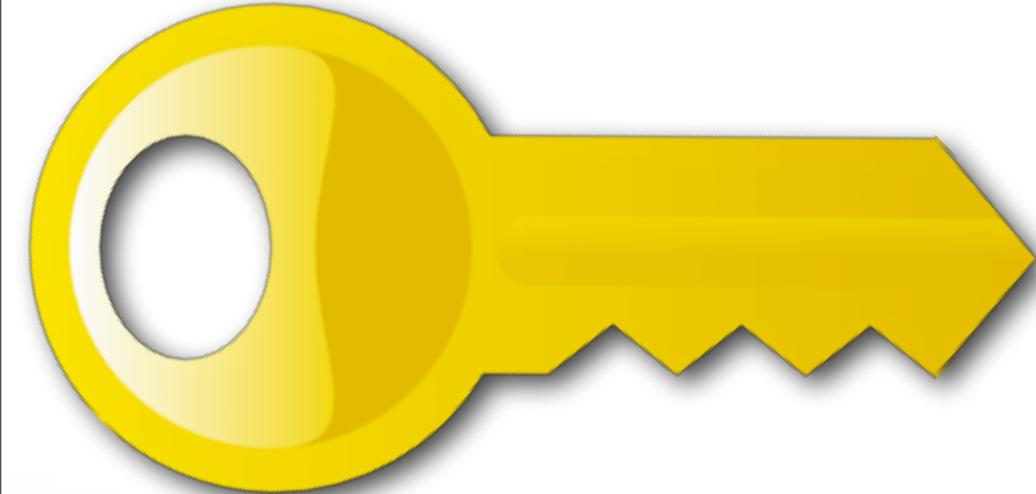
# Content Workflow

## 4) Create Content

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# Planning

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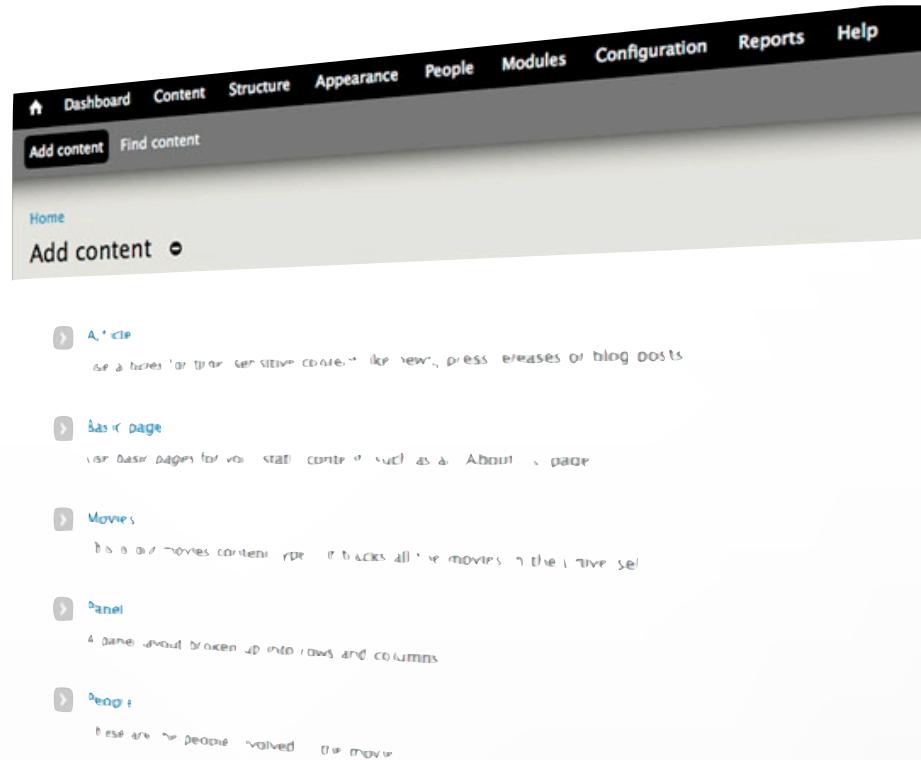
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abc

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1. Introduction
2. Install
3. Create
4. Extend
5. Design
6. Practice



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## 2. Themes

## 4. Menus

The screenshot shows a Drupal website interface. At the top, there's a blue header bar with the Drupal logo and a navigation menu containing 'Home', 'Menu Link 1', 'Menu Link 2', and 'Menu Link 3'. Below the header, on the left, is a 'User login' block containing fields for 'Username' and 'Password', and links for 'Create new account' and 'Request new password', with a 'Log in' button. To the right of this are three article blocks: 'Article 1', 'Article 2', and 'Article 3'. Each article block has a title, a small description, and a 'Read more' link followed by 'Log in or register to post comments'. Orange arrows and numbered callouts point to these elements: an arrow points from '2. Themes' to the header menu; another arrow points from '4. Menus' to the 'Menu Link 3' item in the header; a third arrow points from '3. Blocks' to the 'User login' block; and a fourth arrow points from '1. Modules' to the article blocks.

## 3. Blocks

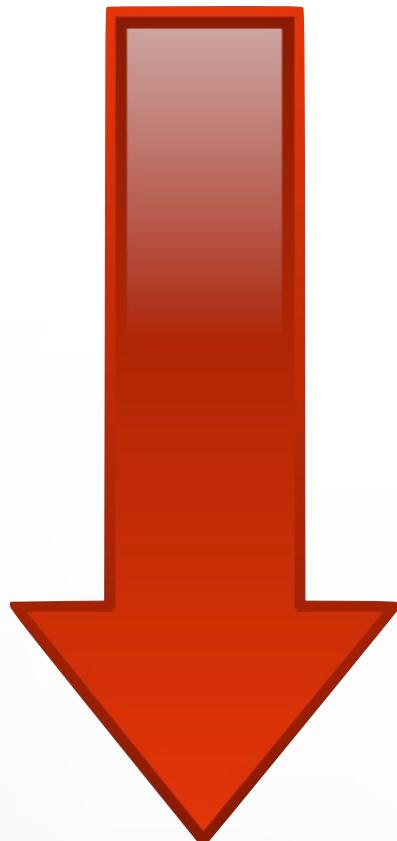
## 1. Modules

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# A. Modules Workflow



- 1) Download
- 2) Install
- 3) Enable
- 4) Configure

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# drupal.org/project/modules

## Modules

You can also view an [alphabetical list of projects](#) that includes all projects but only their names.

Contributed (contrib) modules are plugins for Drupal that extend, build or enhance Drupal core functionality. Use matching [versions](#) (modules released for Drupal 5.x will not work for Drupal 6.x). Contributed modules are not part of Drupal core releases and may or may not have optimized code/functionality. If a module solves your needs please consider [joining forces](#) and helping the maintainer. You can [view module usage statistics](#) for all modules to view the most popular modules used by the Drupal community.

## Views

By [merlinofchaos](#) on the 25th of November, 2005

The Views module provides a flexible method for Drupal site designers to control how lists and tables of content (nodes in Views 1, almost anything in Views 2) are presented. Traditionally, Drupal has hard-coded most of this, particularly in how taxonomy and tracker lists are formatted.

This tool is essentially a smart query builder that, given enough information, can build the proper query, execute it, and display the results. It has four modes, plus a special mode, and provides an impressive amount of functionality from these modes.

**Sort by**

- Title
- Creation date
- Last release
- Recent activity
- Usage statistics

**Search modules**

**Submit**

**Filter by compatibility**

- 4.7.x
- 5.x
- 6.x
- 7.x

# DrupalModules.com

**Drupal Modules** [Module Finder](#) [New Modules](#) [RSS Feeds](#) [Code Search](#) [Drupal Hosting](#) [News](#)

[Home](#) | [Latest Reviews](#) | [Top Rated](#) | [Most Downloaded](#) | [Most Favorited](#) | [Category List](#) | [Rating Guide](#) | [Forum](#) | [About](#) | [Sponsor Us](#)

**Search with Module Finder**

Category:  Version:  [\[Tips\]](#) [\[Link\]](#)

Title:  Body:

**Welcome to Drupal Modules!**

**Search, Rate, And Review Drupal Modules**

Hello, and welcome to DrupalModules.com, a community-powered rating and review service dedicated to helping you find the best Drupal modules for your project!

Need help finding the right Drupal module? Try [Module Finder](#), a powerful new tool that searches as you type! Filter modules by category, version, title, or keywords, and watch the results update in real time.

Want to see what other Drupal users think? Check out the top Drupal modules as ranked by rating or downloads, or just browse through the latest [module reviews](#).

**Search Modules**

Restrict search to:

- Drupal 6.x
- Drupal 5.x
- Drupal 7.x
- Modules
- Reviews

**Sponsored By**

**DRUPALCON SF** April 19-21, 2010

**Need better Drupal Hosting?** There's a review for that.

**User login**

Username: \*

Password: \*

**Highest Rated**

1. Better Formats
2. Administration menu
3. Backup and Migrate
4. CAPTCHA

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# Upload Modules

Files needed to be uploaded to either:

/sites/all/modules/ or:

/sites/default/modules/

**\*\*\* do not upload to /modules/**

OR

use the new installer!

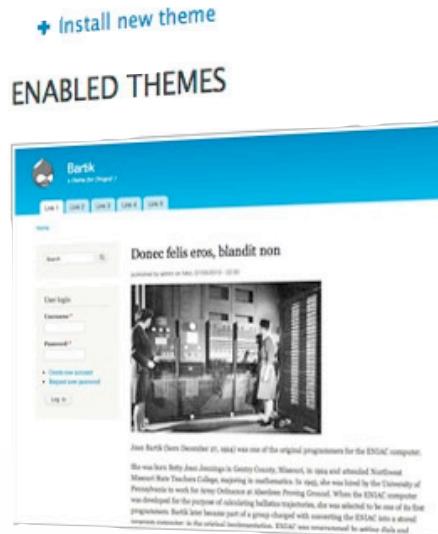
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# The “OSWay”

1. Introduction
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## Bartik 7.2 (default theme)

A flexible, recolorable theme with many regions.

[Settings](#)



## Seven 7.2

A simple one-column, tableless, fluid width adminis

[Settings](#) | [Disable](#) | [Set default](#)

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# B. Themes

Each theme has different block positions

**LiteJazz** - A Drupal Theme

**Header**

**Left Sidebar**

**User 1** **User 2** **User 3**

**User 4** **User 5** **User 6**

**Content Top**

**Content Bottom**

**Footer**

**BEALE STREET** Header

**Header**

**Left Sidebar**

**User 1** **User 2** **User 3**

**User 4** **User 5** **User 6**

**User 7** **User 8** **User 9**

**User 10** **User 11** **User 12**

**Right Sidebar**

**ContentTop**

**ContentBottom**

**Footer**

**Tapestry** Header

**Header**

**Left Sidebar**

**User 1** **User 2** **User 3**

**User 4** **User 5** **User 6**

**User 7** **User 8** **User 9**

**User 10** **User 11** **User 12**

**Right Sidebar**

**Section 1** **Section 2** **Section 3**

**Section 4** **Section 5**

**Content Top Left** **Content Top Right**

**Content Bottom Left** **Content Bottom Right**

**Footer**

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# Theme Sources

- 1) Free themes
- 2) Commercial themes (\$50 to \$250)
- 3) Theme Generator (\$100)
- 4) Custom (\$2000 and upwards)

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# 1) Free Themes

Drupal.org/project/Themes

Download & Extend Home   Drupal Core   Modules   Themes   Translations   Installation Profiles

844 Themes match your search

Filter by compatibility: - Any - ▾  
Status: Full projects ▾  
Search Themes:   
Sort by: Most installed ▾

Themes allow you to change the look and feel of your Drupal site. You can use themes contributed by others or create your own to share with the community. Contributed themes are not part of any official release and may not have optimized code/functionality for your purposes. You can also create a sub-theme of an existing theme. A sub-theme inherits a parent theme's resources. Read more about [Sub-theme structure and inheritance](#). You can also [view a full index of themes](#) listing only their titles.

**Zen**  
Posted by [JohnAlbin](#) on October 11, 2006 at 12:24am  
Last changed: 5 weeks 6 days ago

**Zen** is the ultimate starting theme for Drupal. If you are building your own standards-compliant theme, you will find it much easier to start with Zen than to start with



The Zen theme is a clean, modern, and flexible starting point for your Drupal website. It features a minimalist design with a white background and a light gray header. The navigation bar is located at the top, and the main content area is centered. The theme includes several sub-themes, such as Fusion, Acquia Marina, and Marinelli, which offer different styles and colors. Zen is known for its ease of use and compatibility with various modules, making it a popular choice for both beginners and experienced developers.

**Drupal Themes**

Theme guide v6  
Theme guide v5  
Troubleshooting themes  
**IRC Channel**, #drupal-themes on freenode.  
**Mailing list**, sign up [here](#).

More advanced themes are table-less, a good example of this is the core Garland theme or the [Tapestry](#) theme. For creating custom themes, the [Zen](#) theme provides a good starting point.

**Most Installed**

Zen  
Fusion  
Acquia Marina  
Marinelli  
[More Most installed](#)

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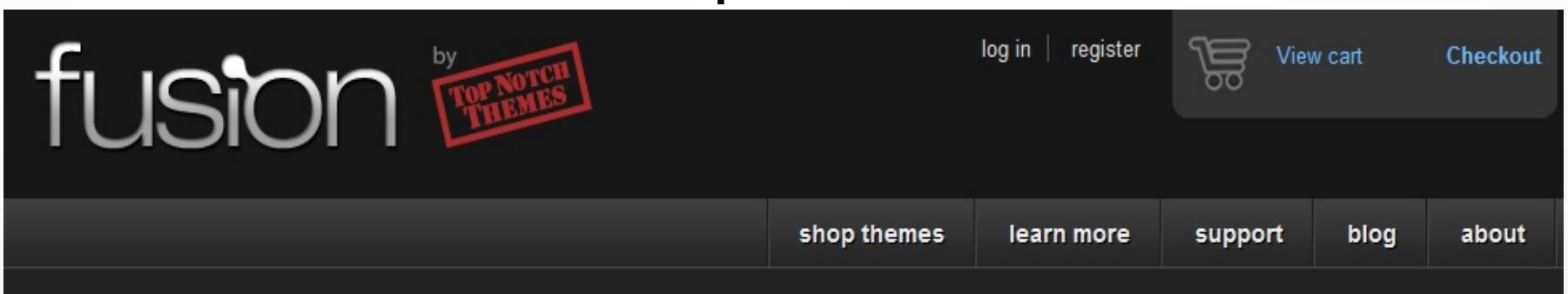


## 2) Commercial Themes

RocketTheme.com



FusionDrupalThemes.com



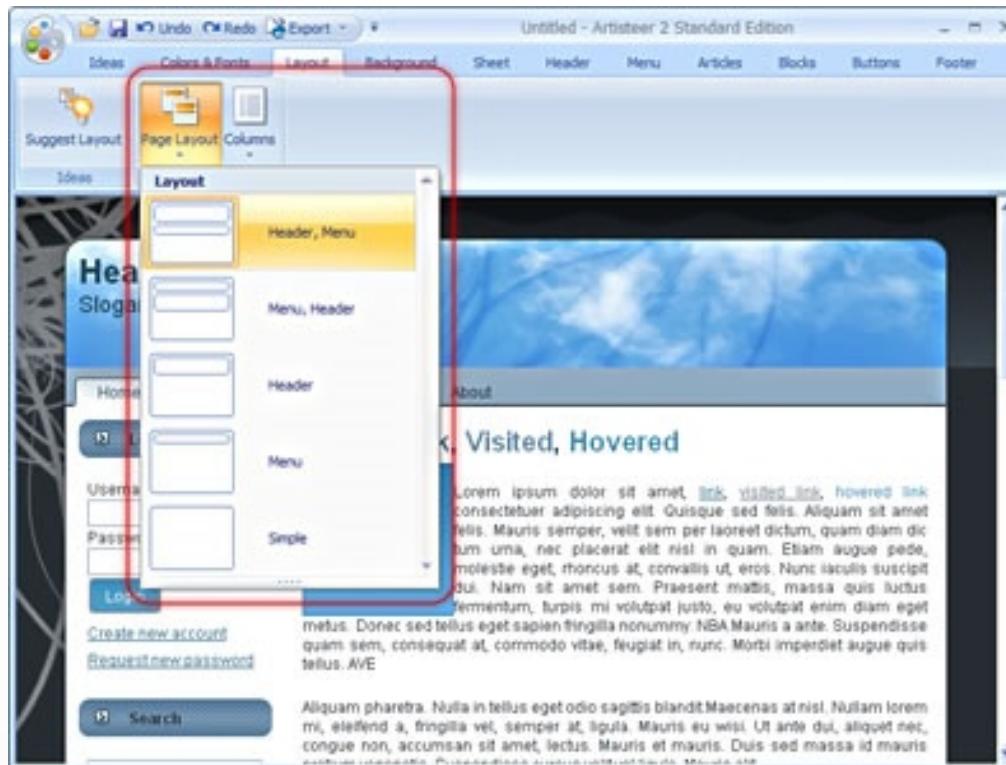
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# 3) Theme Generator

Artisteer.com

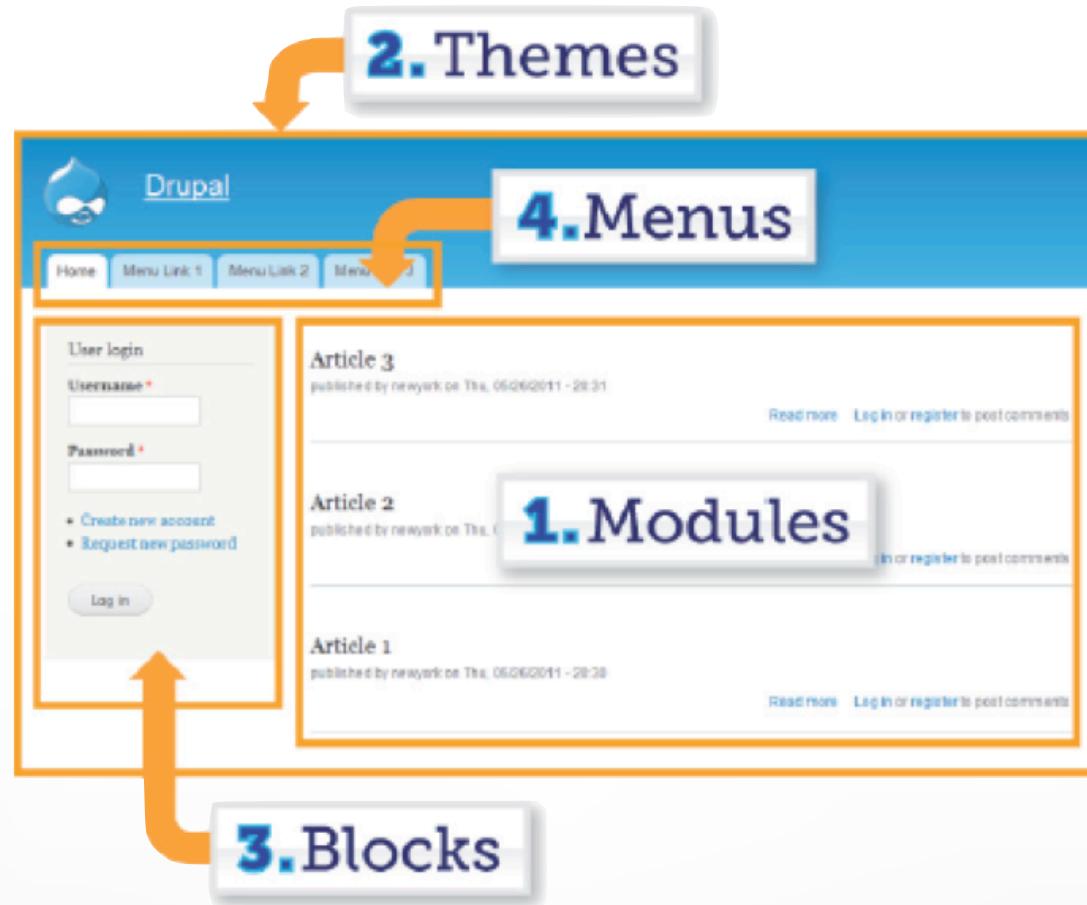


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# Layout Recap



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# Views Workflow

Displays

Page [+ Add](#) [edit view name/description](#)

▼ Page details

Display name: Page [view page](#)

<b>TITLE</b> Title: Latest Movies Page	<b>PAGE SETTINGS</b> Path: /latest-movies-page Menu: No menu Access: Permission   View published content	<a href="#">Advanced</a>
<b>FORMAT</b> Format: Table   <a href="#">Settings</a>	<b>HEADER</b> <a href="#">add</a>	
<b>FIELDS</b> <a href="#">add</a> Content: Title Content: Release Date (Release Date)	<b>FOOTER</b> <a href="#">add</a>	
<b>FILTER CRITERIA</b> <a href="#">add</a> Content: Published (Yes) Content: Type (= Movies)	<b>PAGER</b> Use pager: Full   Paged, 10 items	
<b>SORT CRITERIA</b> <a href="#">add</a> Content: Release Date (desc)		

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## Taco Bell mascot: "Yo quiero mi own show"

Submitted by Anonymous on Thu, 10/11/2007 - 04:21

node #93 (story) - Erat laoreet premo premo hos validus. Lenis feugiat sed brevitas fere. Abluo abdo natu esse capto quadrum nostrud erat autem esca. Tation probo gilvus quae mos adipiscing jumentum paulatim vulputate.

Proprius vicis letalis esca ludus. Autem genitus nunc dolore pala saluto. Euismod natu populus saluto augue. Pala ea vulpes. Elit zelus zelus ex exerci similis genitus.

### Entertainment



[Add new comment](#) [Read more](#)

## World

Militant Belgian waffles take credit for chocolate explosion in Brussels; no injuries reported

Liechtenstein threatens Congo: "Get off our borders"

15 miners die in fake ID collapse in Euritania

Madagascar suddenly disappears; South African leader shows little interest

Rush on Tickle Me Elmo Doll causes 15 deaths in Qandahar; conspiracy theorists blamed

[more](#)

## Politics

Republican ousted from party after suggesting foreign opinion might matter

## Entertainment

"Cavemen", Susan Lucci slighted at emmies; dissed on 12 nominations  
Taco Bell mascot: "Yo quiero mi own show"

"Dr. Phil" given 50 years after prescribing viagra  
Tom Cruise marries, then devours Mandy Moore  
Movie review: "Casablanca"; D- for predictable plot

## Sports

Cubs win World Series; Jesus declines to return  
Zombie Brett Favre still having fun in 93rd season with Packers  
Tom Brady likes bacon: his illegitimate

### What is this site?

This is a site primarily designed to demo a simple newspaper style site using Drupal with the modules Nodequeue and Panels. Click the about link in the primary nav for more information about this site.

You may log into this site as a demo administrator:

Username: demo

Password: demo

This site is reset every hour, so changes you make will not last. If you're mysteriously logged out, this is probably why.

### Unsponsored links

#### [Messy NBS](#)

The news where liberals get mean and nasty!  
[www.messynbs.com](http://www.messynbs.com)

#### [Faux News](#)

Enter the no spin zone where what we tell you IS the news.  
[www.fauxnews.com](http://www.fauxnews.com)

#### [DNN](#)

If we can hammer the same news home five times an hour every hour, we will!  
[www.dnn.com](http://www.dnn.com)

#### [I'll jeerya](#)

Come to us for an outsider's

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# 3. Blocks

The screenshot shows a Drupal website with the following visible blocks:

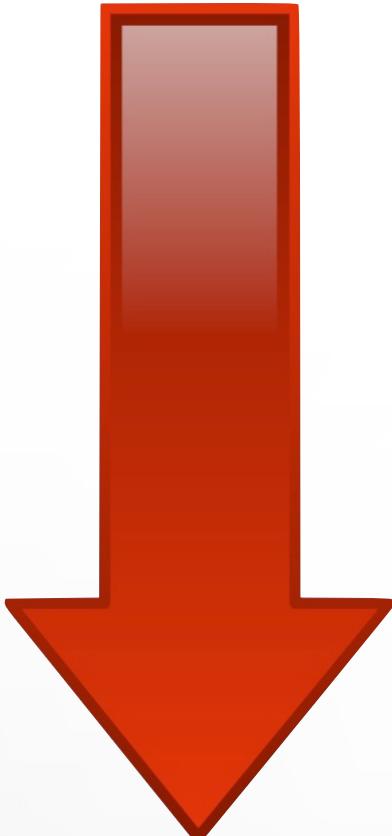
- Header:** A yellow horizontal bar at the top.
- Navigation:** A blue horizontal bar with links: Home, History, About Us, and Sitemap.
- Alert Message:** A yellow box containing an exclamation icon and text: "Get a free 30 day trial of Drupal support, enhanced content search, comment spam blocking and more. If you have an Acquia Network subscription, connect now. You can turn this message off by disabling the Acquia Network modules too."
- Featured:** A yellow horizontal bar below the alert message.
- Sidebar first:** A yellow vertical sidebar on the left.
- Highlighted:** A yellow horizontal bar in the center.
- Bartik:** The main content area, labeled "Bartik".
- Help:** A yellow horizontal bar below the "Bartik" label.
- Sidebar second:** A yellow vertical sidebar on the right.
- Content:** A yellow horizontal bar at the bottom.

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# User Workflow



- 1) Roles
- 2) Permissions
- 3) Users
- 4) Masquerade module to test user accounts

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# Things to Remember

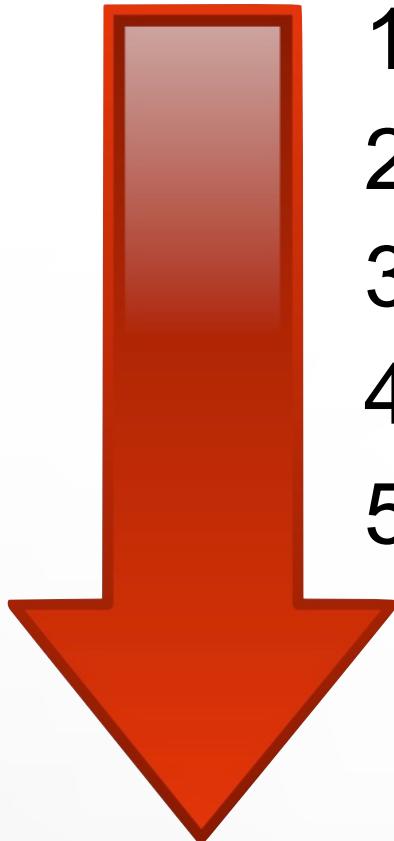


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# Drupal Beginner Workflow



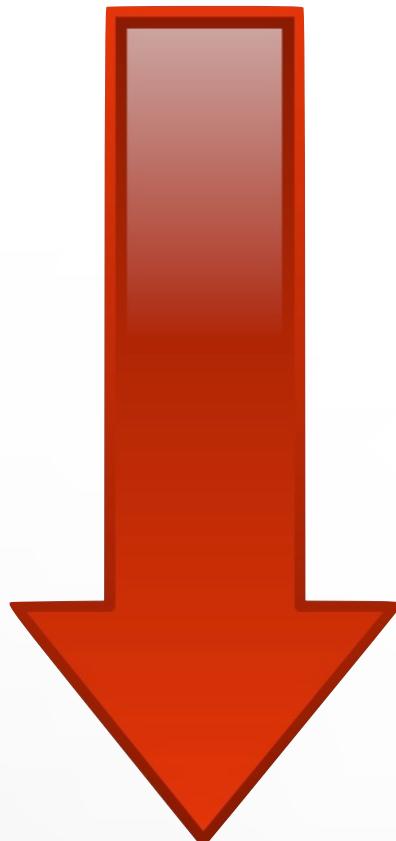
- 1) **Install** (4 ways)
- 2) **Create** (Content)
- 3) **Extend** (Modules)
- 4) **Design** (Views, Panels & Themes)
- 5) Practice, Practice, Practice  
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# Content Workflow



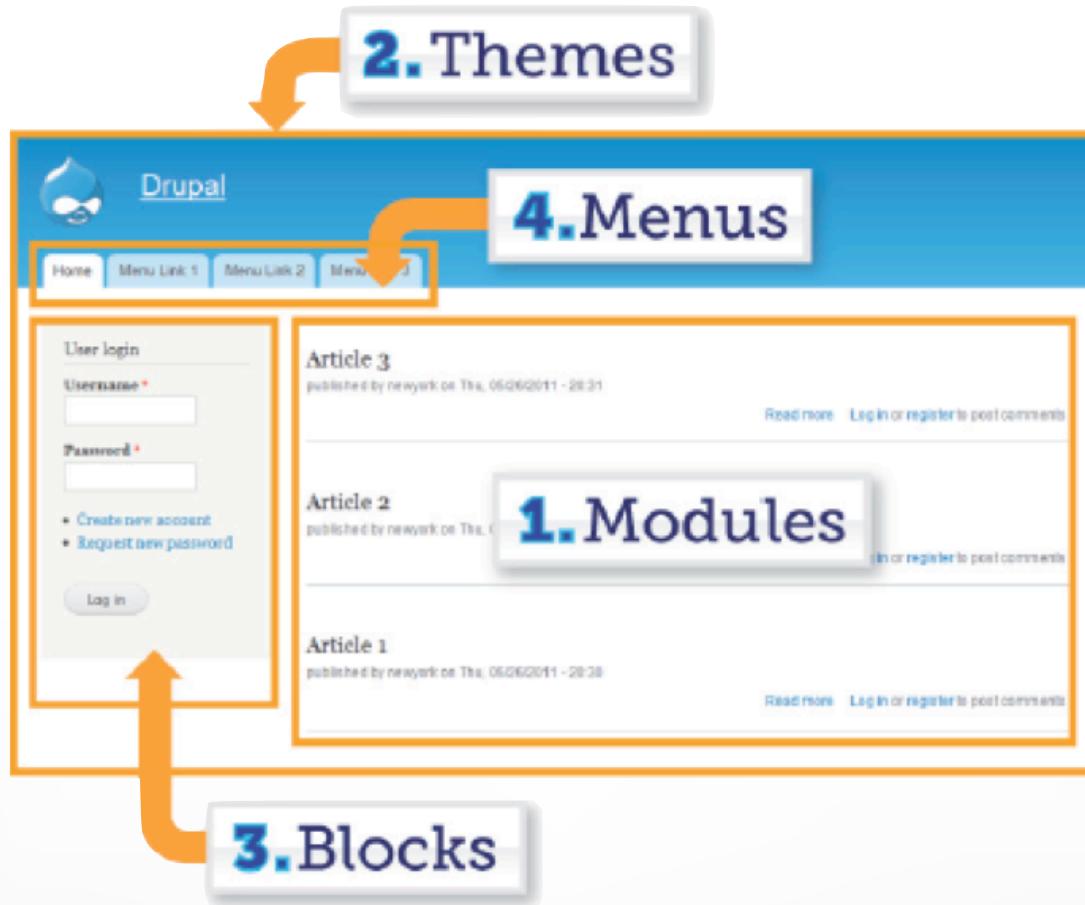
- 1) **Content types**
- 2) **Fields** (if extra data needed)
- 3) **Taxonomy** (if categories needed)
  - Vocabulary
  - Terms
- 4) **Create Content**

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# Extend/Design Workflow

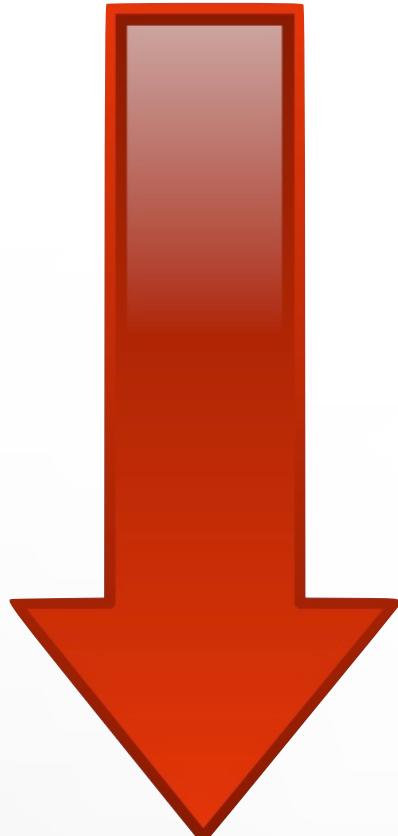


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# Modules / Themes Workflow



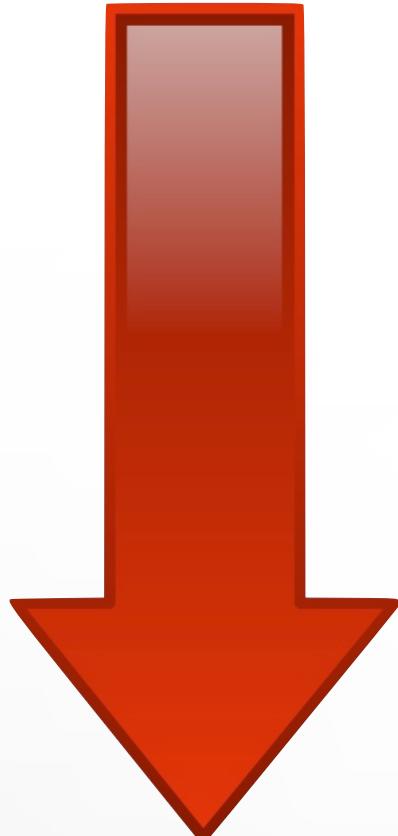
- 1) Download
- 2) Install
- 3) Enable
- 4) Configure

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# User Workflow



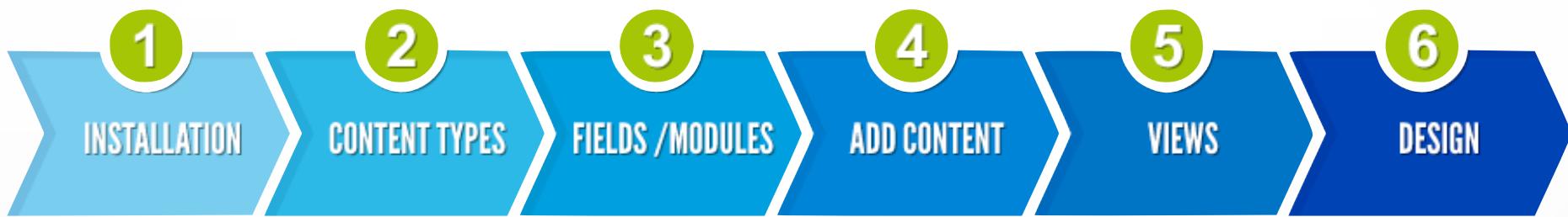
- 1) Roles
- 2) Permissions
- 3) Users
- 4) Masquerade module to test user accounts

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# Put it all together...



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# Over to you ...



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# Practice, Practice, Practice

**Sign up at <http://ostra.in/r0L1Yb>**

– coupon: 2011drupalcampindy (50% off)

- 2 months of full access to our Drupal Beginner and Intermediate online courses (over 80 sessions)
- Help via our support forum.
- Download links to all today's materials including the video.

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